

NOTE:
1. ALL DIMENSIONS ARE IN mm
2. THE DIMENSIONS MARKED ARE CENTRE LINE DISTANCES.
3. THE FABRICATOR HAS TO GENERATE THE FABRICATION DRAWINGS.
4. EXACT LENGTHS TO BE CALCULATED FROM FABRICATION DRAWINGS.

TOTAL WEIGHT: 48787 kg(Approx.)

53	STIFFENER 200 x 75 x 20Thk	IS:2062 Gr-B	40	94	REF. SHEET 11 OF 14
52	UT PLATFORM LEVELS	--	1	2476	REF. SHEET 11 OF 14
51	UT STAIRCASE & MOUNTING DETAILS	--	1	1429	REF. SHEET 12 OF 14
50	PLATE 17000 x 2000 x 6 Thk	IS:2062 Gr-B	1	1601	
49	PLATE 15730 x 4200 x 6 Thk	IS:2062 Gr-B	1	3112	


STATUS	SIGN	DATE
DISCUSSION / REVIEW		
FABRICATION		
UNRESTRICTED	RESTRICTED	CONFIDENTIAL
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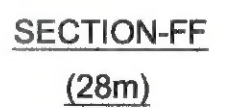
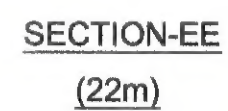
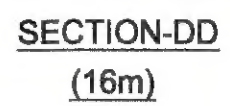
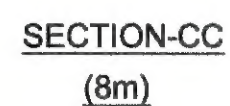
DO NOT SCALE THE DRAWING
ASK IF IN DOUBT
UNLESS OTHERWISE SHOWN
ALL DIMENSIONS ARE IN MILLIMETERS
REMOVE SHARP EDGES & BURRS
CHAMFER 1 M.M. X 45°
MACHINING FINISH IN MICRONS :-
▽ 8 - 25 ▽▽ 1.6 - 8
▽▽▽ 0.025 - 1.6 ▽▽▽▽ < 0.025

DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)	
DIAMETERS & LENGTHS UPTO & INCL.6 ±0.1 6 - 30 ±0.2 30 - 120 ±0.3 120 - 315 ±0.5 315 - 1000 ±0.8 1000 - 2000 ±1.2 2000 - 4000 ±2.0 4000 & ABOVE ±3.0	LENGTH IN M.M. OF SHORTER SIDE OF ANGLE UPTO & INCL. 1- 6 ±1'-00 6- 30 ±0'-30 30-120 ±0'-20 120-400 ±0'-10

SCEND
SHAR CENTRAL DESIGNS
DESIGNED: SHIVAJI/08-10-23
DRAWN: SHIVAJI/08-10-23
DRG.CHECKED: SHIVAJI/08-10-23
APPROVED: SHIVAJI/08-10-23
SIGN. DATE

S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
48	PLATE 550 x 350 x 25 Thk	IS:2062 Gr-B	40	1511	
47	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1600 Lg	IS:4923	2	54	
46	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 943 Lg	IS:4923	4	64	
45	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1889 Lg	IS:4923	2	64	
44	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1280 Lg	IS:4923	32	696	
43	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2561 Lg	IS:4923	16	696	
42	REC. HOLLOW SECTION 200 x 100 x 8 Thk - 1600 Lg	IS:4923	18	990	
41	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1800 Lg	IS:4923	2	61	
40	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1030 Lg	IS:4923	4	70	
39	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2059 Lg	IS:4923	2	70	
38	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1345 Lg	IS:4923	32	731	
37	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2691 Lg	IS:4923	16	731	
36	REC. HOLLOW SECTION 200 x 100 x 8 Thk - 1800 Lg	IS:4923	18	855	
35	PLATE 2 17000 x 160 x 20 Thk	IS:2062 Gr-B	8	3416	
34	PLATE 1 17000 x 400 x 20 Thk	IS:2062 Gr-B	8	8541	
33	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1373 Lg	IS:4923	4	93	
32	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1448 Lg	IS:4923	4	98	
31	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1531 Lg	IS:4923	4	104	
30	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1620 Lg	IS:4923	4	110	
29	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2723 Lg	IS:4923	4	185	
28	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2899 Lg	IS:4923	4	197	
27	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 3085 Lg	IS:4923	4	210	
26	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 3279 Lg	IS:4923	4	223	
25	REC. HOLLOW SECTION 200 x 100 x 6 Thk - 1848 Lg	IS:4923	2	98	
24	REC. HOLLOW SECTION 200 x 100 x 6 Thk - 2098 Lg	IS:4923	2	111	
23	REC. HOLLOW SECTION 200 x 100 x 6 Thk - 2348 Lg	IS:4923	2	124	
22	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1631 Lg	IS:4923	4	111	
21	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1822 Lg	IS:4923	4	124	
20	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2038 Lg	IS:4923	4	138	
19	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2266 Lg	IS:4923	4	154	
18	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2881 Lg	IS:4923	2	98	
17	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 3299 Lg	IS:4923	2	112	
16	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 3751 Lg	IS:4923	2	127	
15	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 4226 Lg	IS:4923	2	144	
14	REC. HOLLOW SECTION 200 x 100 x 6 Thk - 2348 Lg	IS:4923	6	372	
13	REC. HOLLOW SECTION 200 x 100 x 6 Thk - 2898 Lg	IS:4923	6	459	
12	REC. HOLLOW SECTION 200 x 100 x 6 Thk - 3448 Lg	IS:4923	6	546	
11	PLATE 2 8075 x 160 x 20 Thk	IS:2062 Gr-B	8	1623	
10	PLATE 1 8075 x 400 x 20 Thk	IS:2062 Gr-B	8	4057	
9	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 1526 Lg	IS:4923	20	665	
8	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 3053 Lg	IS:4923	10	806	
7	REC. HOLLOW SECTION 200 x 100 x 8 Thk - 2600 Lg	IS:4923	10	894	
6	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 2154 Lg	IS:4923	20	1137	
5	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 4308 Lg	IS:4923	10	1137	
4	REC. HOLLOW SECTION 300 x 150 x 6 Thk - 4000 Lg	IS:4923	10	1621	
3	PLATE 2 8000 x 160 x 20 Thk	IS:2062 Gr-B	8	1608	
2	PLATE 1 7730 x 400 x 20 Thk	IS:2062 Gr-B	8	3884	
1	BASE PLATE 550 x 350 x 25 Thk	IS:2062 Gr-B	4	155	

TITLE ASSEMBLY OF UMBILICAL TOWER (UT) FOR MLS (SLC PROJECT)			
GOVERNMENT OF INDIA INDIAN SPACE RESEARCH ORGANISATION SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA			PROJECTION 
SCALE 1 : 50	DRG. NO. 10-STR-12-1-23/A1	SHEET 10 OF 14	



1. ALL DIMENSIONS ARE IN mm
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▽ 8 - 25 ▽ 1.6 - 8
▽▽ 0.025 - 1.6 ▽▽▽ < 0.025

DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)	
DIAMETERS & LENGTHS	LENGTH IN M.M. OF SHORTER SIDE OF ANGLE UPTO & INCL
UPTO & INCL. 6 ±0.1	
6 – 30 ±0.2	
30 – 120 ±0.3	
120 – 315 ±0.5	1- 6 ± 1'-00'
315 – 1000 ±0.8	6- 30 ± 0'-30'
1000 – 2000 ±1.2	30-120 ± 0'-20'
2000 – 4000 ±2.0	120-400 ± 0'-10'
4000 & ABOVE ±3.0	

SCEND		
SHAR CENTRAL DESIGNS		
DESIGNED	<i>Chase</i>	
DES.CHKD	<i>Chase</i>	
DRAWN	SHIVAJI	09-10-23
DRG.CHKD	<i>Chase</i>	<i>11/10/23</i>
APPROVED	<i>Chase</i>	

TOTAL WEIGHT: 2476 kg(Approx.)					
13	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1204 Lg	IS:4923	2	41	
12	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2408 Lg	IS:4923	1	41	
11	CHQ. PLATE 2000 x 2000 x 8 Thk	IS:2062 Gr-B	4	1005	
10	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 1204 Lg	IS:4923	3	61	
9	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 900 Lg	IS:4923	3	46	
8	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 797 Lg	IS:4923	3	41	
7	SQ. HOLLOW SECTION 100 x 100 x 6 Thk - 2408 Lg	IS:4923	3	123	
6	CHQ. PLATE 4200 x 3000 x 8 Thk	IS:2062 Gr-B	1	791	
5	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 1925 Lg	IS:4923	1	51	
4	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 950 Lg	IS:4923	1	25	
3	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 1315	IS:4923	2	69	
2	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 2255	IS:4923	1	60	
1	SQ. HOLLOW SECTION 150 x 150 x 6 Thk - 4662	IS:4923	1	123	
S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS

TITLE	UT PLATFORM LEVELS FOR MLS (SLC PROJECT)
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**GOVERNMENT OF INDIA
INDIAN SPACE RESEARCH ORGANISATION
SATISH DHAWAN SPACE CENTRE SHAR
SRIHARIKOTA**

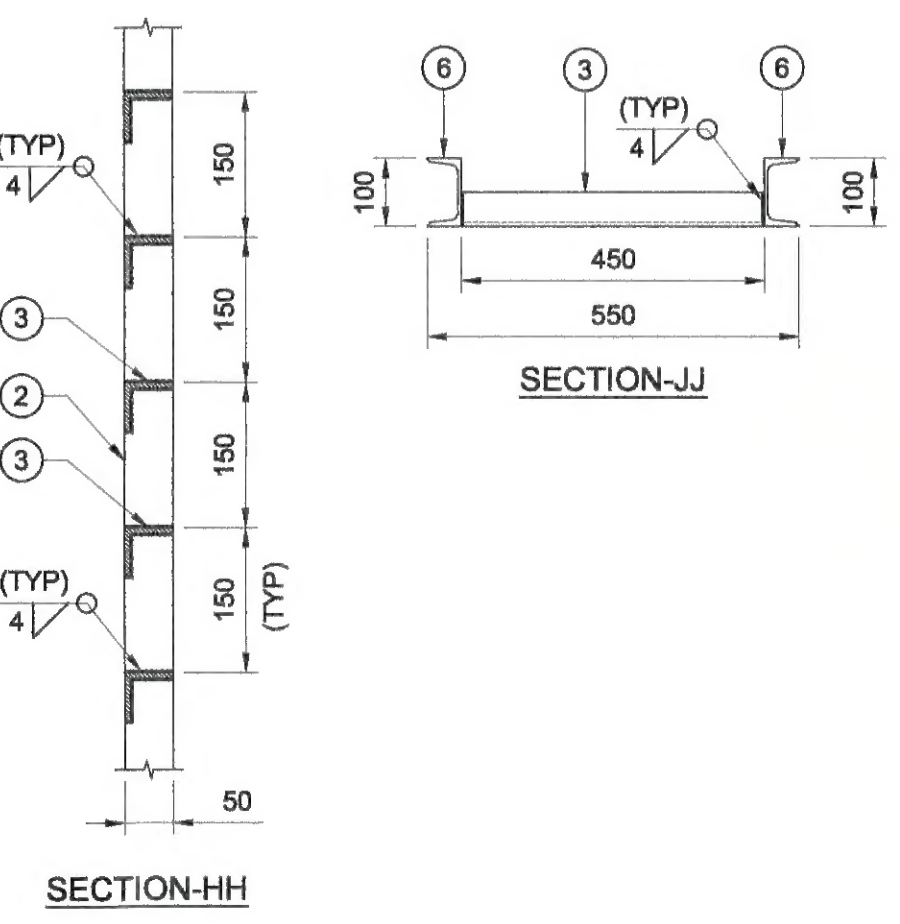
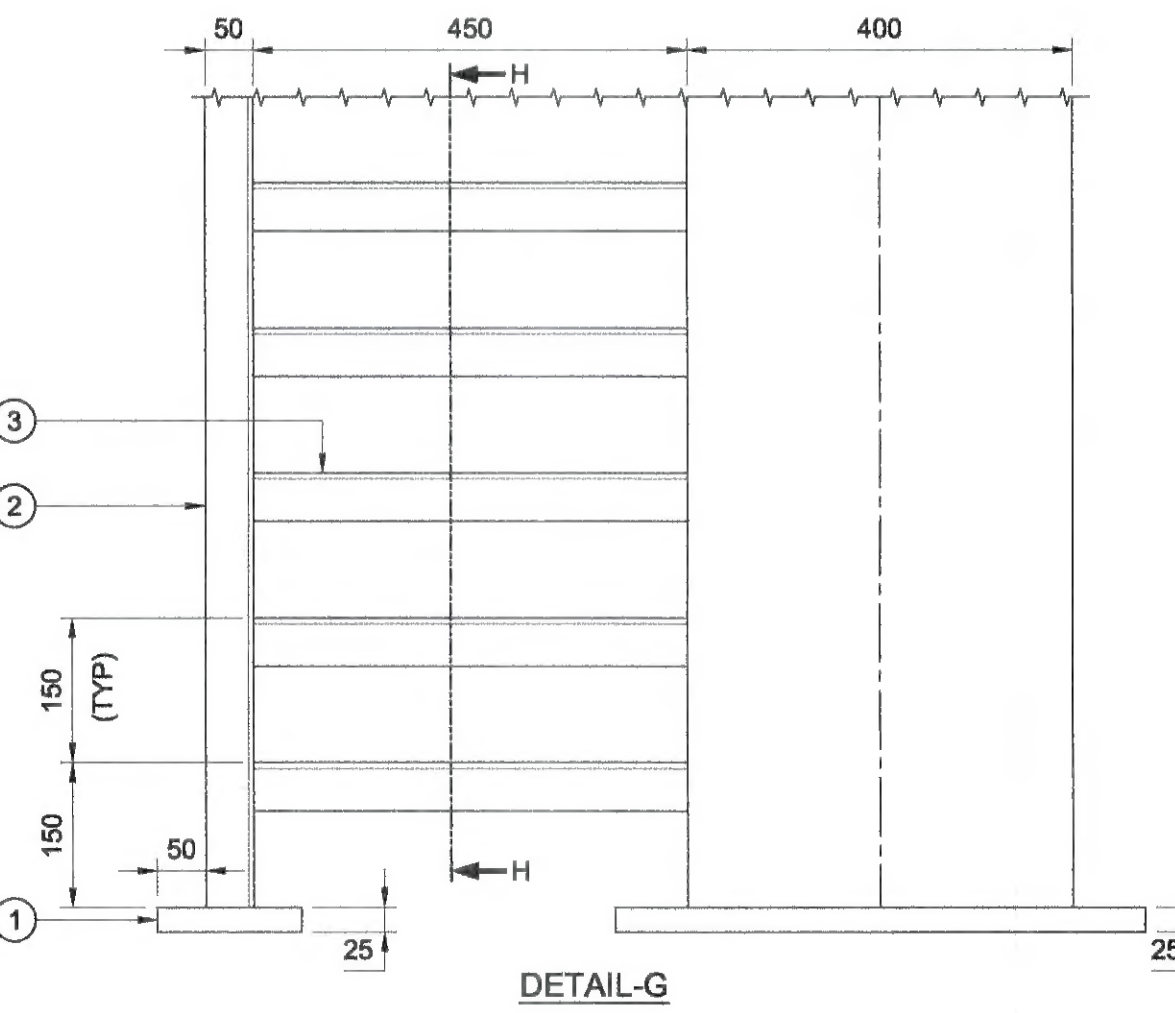
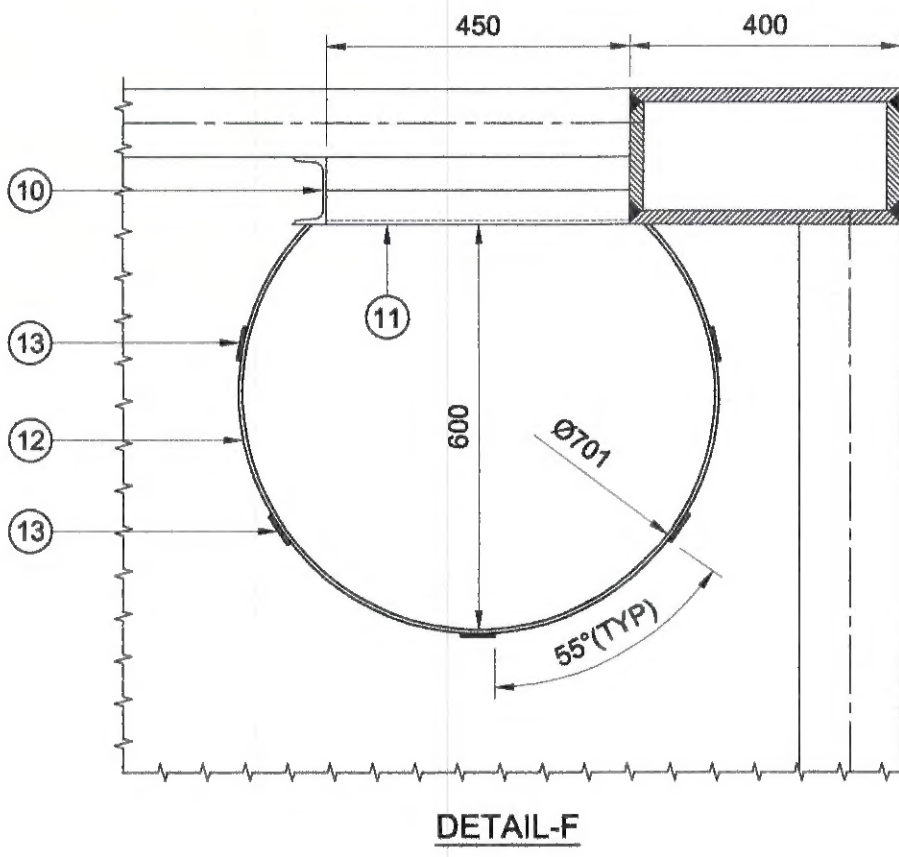
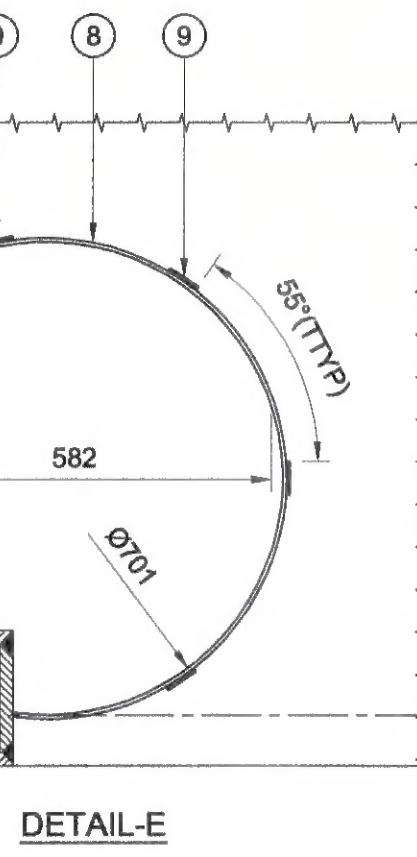
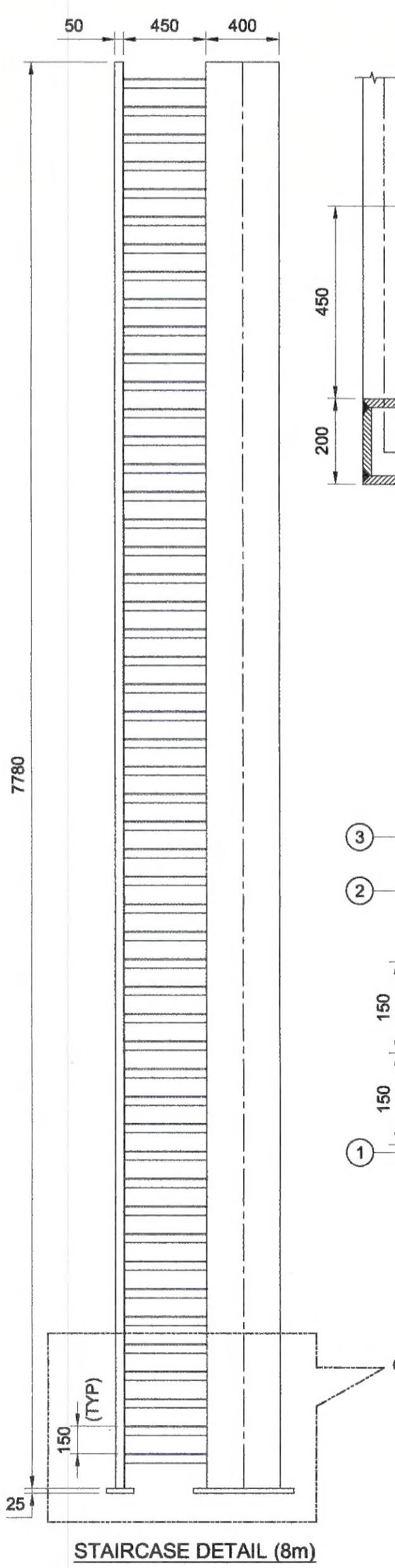
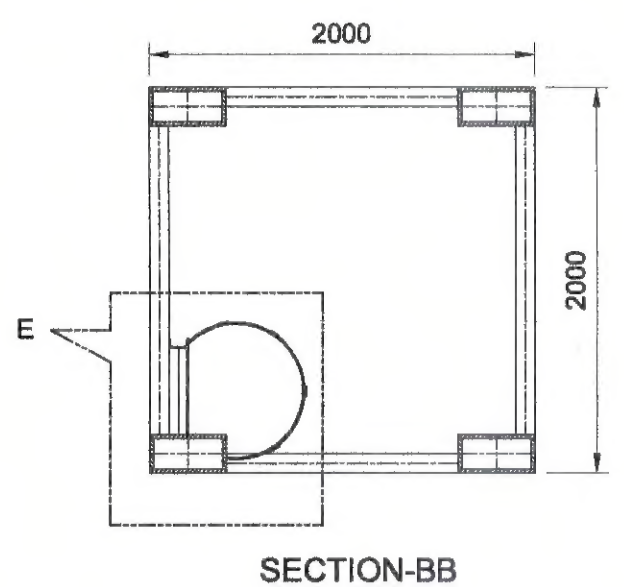
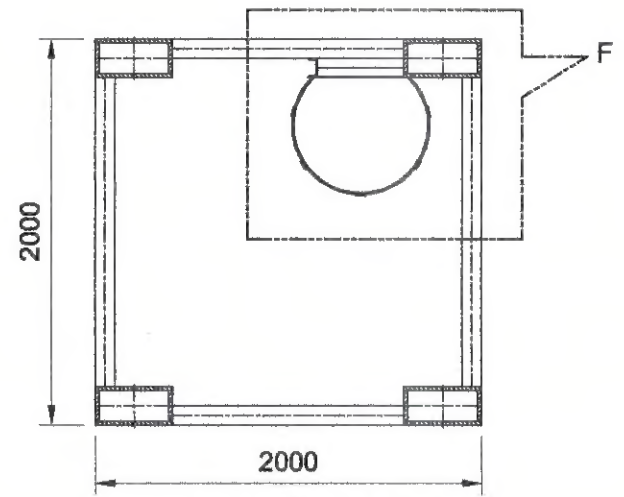
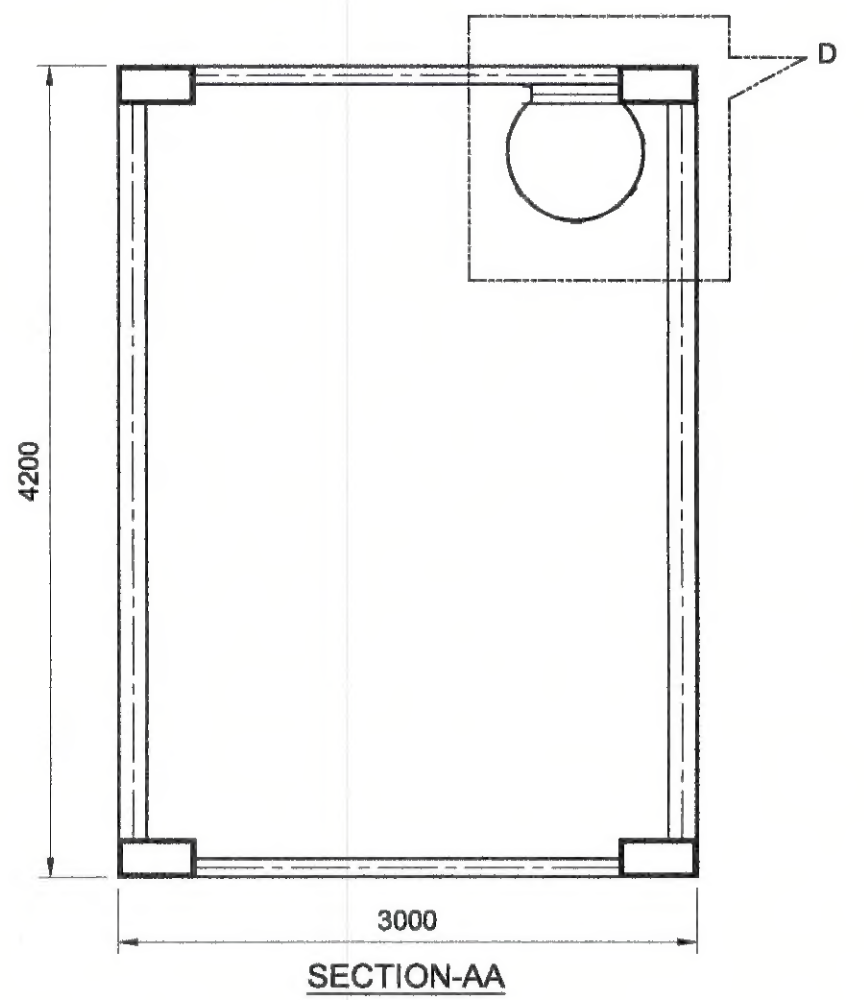
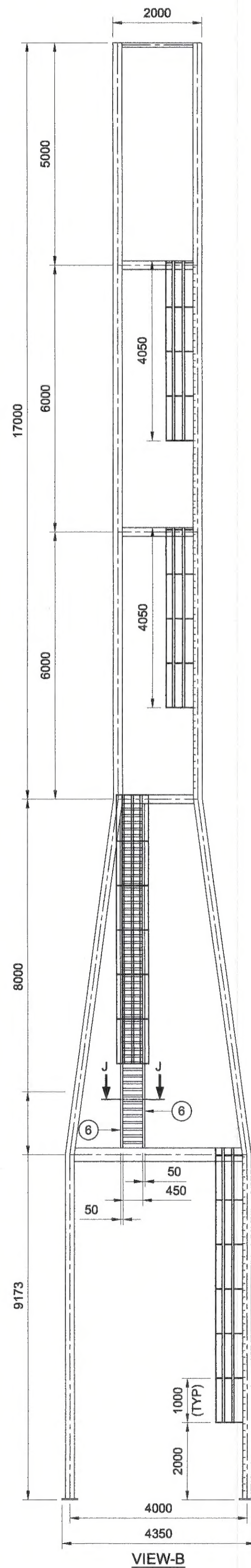
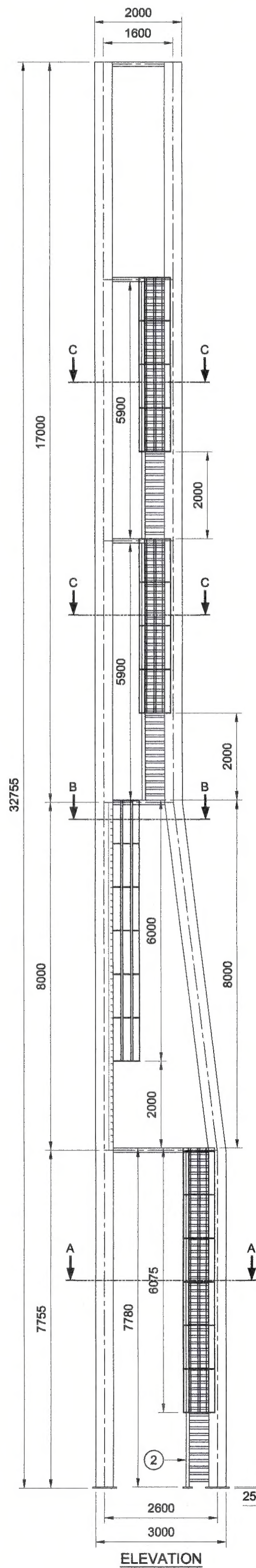
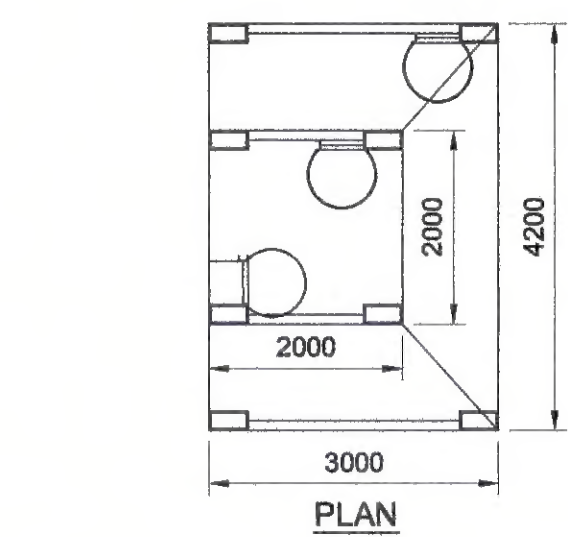
SCALE 1 : 15

DRG. NO. 10-STR-12-1-23/A1

The symbol consists of a circle on the left and a truncated cone on the right, connected by a horizontal line. The circle represents the end view, and the truncated cone represents the front view.

SHEET 11

SCEND/AG80/A1/2023/SHIVAJI/KUMAR



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TENDER PURPOSE		
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DEVIATION FOR NON TOLERANCED DIMENSIONS (IS -2102)	LENGTH IN M.M. OF SHORTER SIDE OF ANGLE UPTO & INCL.
DIAMETERS & LENGTHS UPTO & INCL. 6 ±0.1 6 - 30 ±0.2 30 - 120 ±0.3 120 - 315 ±0.5 315 - 1000 ±0.8 1000 - 2000 ±1.2 2000 - 4000 ±2.0 4000 & ABOVE ±3.0	1- 6 ± 1°-00' 6- 30 ± 0°-30' 30-120 ± 0°-20' 120-400 ± 0°-10'

SCEND
SHAR CENTRAL DESIGNS
DESIGNED: SHIVAJI
DES.CHECKED: SHIVAJI
DRAWN: SHIVAJI
DRG.CHECKED: SHIVAJI
APPROVED: SHIVAJI
SIGN. DATE

S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
16	STIFFENER 200 x 75 x 20Thk	IS:2062 Gr-B	40	94	
17	PLATE 200 x 180 x 20Thk	IS:2062 Gr-B	8	40	
16	PLATE 400 x 200 x 20Thk	IS:2062 Gr-B	8	100	
15	PLATE 550 x 350 x 20Thk	IS:2062 Gr-B	4	121	
14	PLATE 550 x 350 x 25Thk	IS:2062 Gr-B	4	151	
13	PLATE 4050 x 50 x 5 Thk	IS:2062 Gr-B	10	79	
12	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	10	10	
11	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	78	158	
10	ISMC 100 - 5900 Lg	IS:808	2	109	
9	PLATE 6000 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
8	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
7	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	52	105	
6	ISMC 100 - 8000 Lg	IS:808	2	147	
5	PLATE 6075 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
4	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
3	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	51	103	
2	ISMC 100 - 7780 Lg	IS:808	1	72	
1	PLATE 200 x 150 x 25 Thk	IS:2062 Gr-B	1	6	

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17	PLATE 200 x 180 x 20Thk	IS:2062 Gr-B	8	40	
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10	ISMC 100 - 5900 Lg	IS:808	2	109	
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8	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
7	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	52	105	
6	ISMC 100 - 8000 Lg	IS:808	2	147	
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7	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	52	105	
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15	PLATE 550 x 350 x 20Thk	IS:2062 Gr-B	4	121	
14	PLATE 550 x 350 x 25Thk	IS:2062 Gr-B	4	151	
13	PLATE 4050 x 50 x 5 Thk	IS:2062 Gr-B	10	79	
12	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	10	10	
11	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	78	158	
10	ISMC 100 - 5900 Lg	IS:808	2	109	
9	PLATE 6000 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
8	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
7	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	52	105	
6	ISMC 100 - 8000 Lg	IS:808	2	147	
5	PLATE 6075 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
4	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
3	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	51	103	
2	ISMC 100 - 7780 Lg	IS:808	1	72	
1	PLATE 200 x 150 x 25 Thk	IS:2062 Gr-B	1	6	

S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
16	STIFFENER 200 x 75 x 20Thk	IS:2062 Gr-B	40	94	
17	PLATE 200 x 180 x 20Thk	IS:2062 Gr-B	8	40	
16	PLATE 400 x 200 x 20Thk	IS:2062 Gr-B	8	100	
15	PLATE 550 x 350 x 20Thk	IS:2062 Gr-B	4	121	
14	PLATE 550 x 350 x 25Thk	IS:2062 Gr-B	4	151	
13	PLATE 4050 x 50 x 5 Thk	IS:2062 Gr-B	10	79	
12	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	10	10	
11	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	78	158	
10	ISMC 100 - 5900 Lg	IS:808	2	109	
9	PLATE 6000 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
8	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
7	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	52	105	
6	ISMC 100 - 8000 Lg	IS:808	2	147	
5	PLATE 6075 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
4	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
3	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	51	103	
2	ISMC 100 - 7780 Lg	IS:808	1	72	
1	PLATE 200 x 150 x 25 Thk	IS:2062 Gr-B	1	6	

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15	PLATE 550 x 350 x 20Thk	IS:2062 Gr-B	4	121	
14	PLATE 550 x 350 x 25Thk	IS:2062 Gr-B	4	151	
13	PLATE 4050 x 50 x 5 Thk	IS:2062 Gr-B	10	79	
12	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	10	10	
11	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	78	158	
10	ISMC 100 - 5900 Lg	IS:808	2	109	
9	PLATE 6000 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
8	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
7	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	52	105	
6	ISMC 100 - 8000 Lg	IS:808	2	147	
5	PLATE 6075 x 50 x 5 Thk	IS:2062 Gr-B	5	60	
4	ROD Ø10 x 1656 Lg	IS:2062 Gr-B	7	7	
3	ISA 50 x 50 x 6 Thk - 450 Lg	IS:808	51	103	
2	ISMC 100 - 7780 Lg	IS:808	1	72	
1	PLATE 200 x 150 x 25 Thk	IS:2062 Gr-B	1	6	

S.NO	DESCRIPTION	MATERIAL	QTY	W.T	REMARKS
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